Patent claims

- Use of an oligoribo- or oligodeoxyribonucleotide which is capable of hybridizing with the mRNA which codes for the protein Ki-67, or of a physiologically acceptable salt thereof, for the preparation of a medicament for destroying proliferating cells.
- 2. Use according to claim 1, characterized in that the nucleotide sequence of the oligoribo- or oligodeoxyribonucleotide is complementary to SEQ ID NO 1.

Use according to claim 2, characterized in that the nucleotide sequence of the oligoribo- or oligodeoxyribonucleotide is complementary to the section from position 197 to 9962 of SEQ ID NO 1.

- 4. Use according to anyone of claims 1 to 3, characterized in that the oligoribo- or oligodeoxyribonucleotide contains 12 to 66 nucleotides.
- 5. Use according to anyone of claims 1 to 4, characterized in that the oligoribo- or oligodeoxyribonucleotide contains 17 to 46 nucleotides.
- 6. Use according to anyone of claims 1 to 5, characterized in that the oligoribo- or oligodeoxyribonucleotide has the sequence (5'-ACC AGG CGT CTC GTG GGC CAC AT).
- 7. Use according to anyone of claims 1 to 6, characterized in that one or more phosphate groups of the oligoribo- or oligodeoxyribonucleotide are replaced by phosphothicate, methylphosphonate, phosphoramidate, methylene(methylimino) and/or guanidine group(s).

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Use according to anyone of claims 1 to 7, characterized in that the oligoribo- or oligodeoxyribonucleotide has a terminal 3'-3' and/or 5 - 5' internucleotide linkage.

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Medicament, characterized by a content of an oligoriboand/or oligodeoxyribonucleotide which is capable of hybridizing with the mRNA which codes for the cell cycleassociated protein Ki-67, or of a physiologically acceptable salt thereof, in addition to conventional carrier substances, auxiliaries and/or additives, wherein the amount of oligonucleotide is adjusted such that an administration of 0.001 to 100 mg/kg of body weight is achieved.

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Use according to anyone of claims 1 to 8 for treatment of tumours, autoimmune diseases, cicatrization, inflammations, allergies, rheumatic diseases and rejection reactions following transplantations.

- 11. Process for the preparation of a medicament for destroying proliferating cells, characterized by the use of oligoribo-or oligodeoxyribonucleotides which are capable of hybridizing with the mRNA which codes for the protein Ki-67, or of a physiologically acceptable salt thereof.
- 12. Process according to claim 11 for the preparation of a medicament for treatment of tumours, autoimmune diseases, cicatrization, inflammations, allergies, rheumatic diseases or rejection reactions following transplantations.
- 13. Process according to claim 1) or 12, comprising combining of an oligoribo- or oligodeoxyribonucleotide which is capable of hybridizing with the mRNA which codes for the protein Ki-67 with conventional carrier substances, auxiliaries and/or additives.

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Oligoribo- or oligodeoxyribonucleotide, characterized in that it is capable of hybridizing with the mRNA which codes for the protein Ki-67, and that it contains 22 to 46 nucleotides, or a physiologically acceptable salt thereof.

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Oligoribo- or oligodeoxyribonucleotide according to claim 14, characterized in that it contains the sequence (5'-ACC AGG TGA GCC GAG GAC GCC AT).